

# **NEW YORK POWER AUTHORITY – 2016 ACCOMPLISHMENTS**

## **UTILITY OPERATIONS**

- In June, NYPA and New York State Electric & Gas (NYSEG) completed a joint \$120 million transmission project to enable more electricity to flow from upstate to meet downstate demand without adding power lines. The MSSC project is expected to provide up to 440 megawatts (MW) of additional transmission capacity to help relieve congestion that affects the ability to deliver surplus electricity downstate.
- 759 consecutive days—more than two years—without a DART incident was a safety milestone achieved by employees at the St. Lawrence-FDR Power Project, Massena. During that time, there were no DART (Days Away, Restricted or Transferred) incidents, which are defined by the federal government as work-related injuries or illnesses serious enough for an employee to miss work or have job activities affected by such an occurrence.
- NYPA announced a partnership under which GE Power will provide software to monitor, analyze and enhance the performance of the Power Authority’s generating assets. The collaboration will improve performance and operating costs of NYPA’s hydropower and gas-based generation, and reduce emissions. The software monitors generation and transmission equipment to predict potential failures, reduce unplanned downtime, save on maintenance costs and lower risks.
- Fuel transfer valves were inspected on the 14 combustion assemblies at the 500-MW Combined-Cycle Power Plant, Astoria, during one of two scheduled outages. Numerous other inspections plus preventive and corrective maintenance were also completed. Work also supported the Asset Management and Smart Grid initiatives in NYPA’s Strategic Vision 2020 with installation of systems to continuously monitor the “health” of equipment critical to the security of the state’s bulk electric grid.
- NYPA installed two emergency diesel generators that will enable its small clean power plants in the Bronx to start in a blackout or other loss of power affecting the electric grid. The capability, referred to as “black-start,” stemmed from a request from Consolidated Edison of New York to bolster the resiliency of New York City’s power system.
- Crews installed and commissioned the first 765kV high voltage circuit breaker replacement as part of the multiyear \$726 million Transmission Life Extension Modernization (T-LEM) to upgrade much of NYPA’s transmission assets. Almost the entire job was completed with in-house labor except for some foundation work. This is the first of six 765kV high voltage circuit breakers being replaced as part of T-LEM.

## **Union Contract**

NYPA reached agreement with the Utility Workers Union of America, which represents employees at the 500-MW plant, on a 10-year contract.

## **ECONOMIC DEVELOPMENT**

### **ReChargeNY**

Eighty-four allocations, totaling 18.7 MW, to 68 businesses and not-for-profit facilities in return for commitments linked to more than 5,900 jobs and in excess of \$352 million in capital spending.

### **Hydropower**

Allocations totaling 1.5 MW of Replacement Power from our Niagara Power Project went to three Western New York businesses, supporting the creation of over 380 jobs and more than \$14.3 million in capital investment. A 400 kW Replacement Power allocation was awarded to Geico in Erie County, supporting 300 new jobs, 2,600 existing jobs and \$6 million in capital spending. A 600 kW Preservation Power allocation from our St. Lawrence-Franklin D. Roosevelt Power Project was awarded to Roth Industries USA in Jefferson County, supporting 14 existing jobs, eight new jobs, and \$6.7 million in capital spending.

## **Western NY Economic Development Fund**

More than \$6 million in awards were recommended by the board and approved by NYPA for 10 businesses that will create or retain 264 jobs and generate \$64.6 million in project investment.

## **North Country Economic Development Fund**

- A \$500,000 working capital loan was approved for St. Lawrence Zinc in St. Lawrence County. The project has the potential to create 123 jobs and retain seven.
- A \$100,000 loan was approved for L.K.R. Enterprises in Star Lake, St. Lawrence County. The project created 12 jobs.
- A \$300,000 loan was also provided to North Woods Lodge and Resort in Old Forge, Hamilton County, creating approximately 30 jobs.
- A loan for \$300,000 was approved for Swan Bay Resort & Marina, in Alexandria Bay, leveraging an additional investment of \$459,300. The project is expected to create 10 full-time equivalent jobs.
- A \$300,000 award was committed to Roth Industries as part of a \$3.2 million expansion project in Watertown. Roth also received a 600 kW Preservation Power allocation toward the expansion that is expected to retain 14 jobs and create eight.

## **ENERGY EFFICIENCY**

- NYPA and the New York State Office of General Services carried out projects at Empire State Plaza and the Harriman State Office Campus in Albany that will save \$760,000 in annual energy costs and remove more than 5,700 tons of greenhouse gases every year. NYPA implemented the project and provided approximately \$7.8 million in financing for lighting and meter upgrades.
- Completion of a \$1.7 million project at the New York State Museum in Albany will save nearly \$200,000 in annual energy and maintenance costs, and reduce greenhouse gases by approximately 900 tons annually. Incandescent lighting in exhibit areas was replaced with LED track lighting. Installations included approximately 2,000 fixtures and a lighting control system.
- A \$9.2 million cooling tower replacement at SUNY Purchase will deliver more than \$400,000 in annual savings and reduce greenhouse gases by nearly 360 tons per year. The project includes replacement of four cooling towers, electrical upgrades, and underground piping and pumps.
- A \$978,000 LED lighting project for the City of Utica will result in more than \$150,000 in annual savings and reduce more than 630 tons of greenhouse gases annually. The project included 38 locations.
- Completion of a project at SUNY Stony Brook University on Long Island will save more than \$1.3 million and remove nearly 5,500 tons of greenhouse gases annually. NYPA financing of \$11.4 million provided more than 52,000 light fixtures and other building improvements.

## **KEY CUSTOMER HIGHLIGHTS**

### **New York Energy Manager**

NYEM opened in August in Albany County as the state's first energy management network operations center devoted to helping thousands of public facilities identify potential sources of energy savings. NYEM is expected to save taxpayers more than \$100 million annually in public energy costs.

### **K-Solar**

By fall 2016, more than 330 public and private schools received free solar site assessments under K-Solar, a partnership between NYPA and the New York State Energy Research and Development Authority (NYSERDA). The first school to embark on a K-Solar project was the New York Institute for Special Education in the Bronx.

## **Solar Generation and Battery Storage Project**

NYPA and SUNY New Paltz partnered on a solar-energy storage system to offset the school's reliance on the electric grid. It will provide solar generation, and employ a hybrid power converter and backup generator. With year-end completion expected, NYPA implemented the 217-kW project and provided more than \$580,000 in financing.

## **Electric Vehicles**

NYPA has installed more than 100 municipal electric vehicle (EV) charging stations. In partnership with NYSERDA, NYPA installed the charging stations at 37 locations statewide. A ceremony to mark the 100<sup>th</sup> installation took place in Tarrytown.

NYPA unveiled New York's first high-speed EV charging stations at four service areas along the New York State Thruway in the Hudson Valley.

NYPA expanded its program to help municipal utilities green their fleets. Fairport partnered with NYPA to create the state's largest municipal utility EV fleet with 14 vehicles.

## **TOURISM**

- In June, NYPA reopened its Niagara Power Vista visitors center, following an extensive renovation, with cutting-edge interactive games and exhibits. New attractions include a surround-sound theatre; a power plant control room simulator; a transmission table that lets you run a grid and direct power to where it's needed most; plus a kiosk where visitors build their own power dam.
- NYPA also helped fund a seasonal trolley service that provided free transportation to more than a dozen tourism sites in the Niagara Falls area, including the Power Vista.

## **FIVE CITIES ENERGY PLANS**

NYPA announced the implementation of 21 energy-saving projects in the cities of Albany, Buffalo, Rochester, Syracuse and Yonkers to reduce energy costs and emissions, advance sustainability, and support clean-energy technologies and jobs. Projects range from lighting upgrades to advanced building controls. Estimated to save the cities about \$1.5 million annually, they are funded by \$4 million in grants from NYPA.

## **43NORTH AWARDS \$1 MILLION GRAND PRIZE**

For the third consecutive year, NYPA helped fund 43North, the world's largest business idea competition. Oncolinx of Boston, a developer of cancer immunotherapies, won the grand prize and free incubator space in Buffalo for one year.

## **INNOVATORS SUMMIT**

In October, NYPA held its third Innovators Summit, in Albany, to recognize government agencies aligned with the state's BuildSmart NY initiative. The event showcased technology and strategies to reduce energy consumption.

## **GREATER NIAGARA RIVER ACCESS**

NYPA committed \$42 million to replace a two-mile stretch of the Robert Moses Parkway North in Niagara Falls with open space, scenic overlooks and recreational trails. The project will allow easier access to the water's edge. About 300 acres of green space will be opened up along the Niagara Gorge rim.

## **PIONEERING UNDERWATER CABLE TECHNOLOGY**

NYPA implemented groundbreaking technology to protect the submerged portion of its Y-49 transmission line in Long Island Sound from anchor strikes. The first-of-its-kind system alerts vessels to buried cables and warns NYPA when movements indicate anchoring might occur.

## **IMPROVED CELLULAR COMMUNICATIONS**

NYPA received final approval from the state Office of the Comptroller to improve cellular communications in the Catskills region. Communications equipment, added to three towers along the Route 30 corridor, was

covered by \$3.5 million from NYPA. One of the towers is on NYPA property near its Blenheim-Gilboa Pumped Storage Power Project.

## **FINANCIAL POSITION**

In November, trustees approved consideration for a bond issue of up to \$475 million to finance major infrastructure projects and refund previously issued bonds. If market conditions are favorable and action is taken, the bonds would be used for life extension and modernization initiatives for NYPA's transmission system and its Lewiston Pump-Generating Plant.

## **LEADERSHIP STRENGTHENED**

Eugene Nicandri of Massena, a NYPA trustee since 2008, was named vice chairman of the Board of Trustees. Senior management was reinforced with the additions of: Ken Lee, senior vice president for Information Technology and Cyber Security, and chief information officer; Kimberly Harriman, senior vice president of Public & Regulatory Affairs; and the promotions of Jill Anderson, executive vice president, chief commercial officer, and Joseph Kessler, executive vice president, chief operating officer.

## **MENTORING**

NYPA also continued its longstanding Mentoring program, which supports our Strategic Vision 2020 in the areas of Workforce Planning, Knowledge Management and Process Excellence.

Begun in 2010, more than 230 mentors and mentees across NYPA have participated, including 56 in the most recently completed class in spring 2016. Another 112 employees comprise the class that began in fall 2016.

The program centers on monthly and quarterly meetings to share career guidance and opportunities.

## **CANAL INTEGRATION**

Following actions by Governor Cuomo and the New York State legislature, NYPA assumed fiscal responsibility for the New York State Canal Corporation on April 1 in preparation for taking ownership on Jan. 1, 2017. Dedicated teams of employees from NYPA, Canals and New York State Thruway Authority, the previous canal owner since 1992, carried out extensive transition planning.

## **FOCUS ON WESTERN NEW YORK**

- Trustees approved \$15 million for the development of the Western New York Workforce Training Center in Buffalo, which will train for careers in clean energy and advanced manufacturing. Its Utility of the Future & Clean Energy Training Center will be run by NYPA to recruit and train employees.
- NYPA refurbished an elevator that carries visitors to a fishing pier near the base of the Robert Moses Niagara Power Plant. The \$1.7 million modernization project provides access a 240-foot long platform, restrooms, a fish-cleaning station and parking.
- NYPA and the city of Niagara Falls restored and relocated the Old Stone Chimney, a French and Indian War relic, to Adams Slip. The chimney was moved from NYPA property in Niagara Falls to support heritage tourism efforts.

## **FOCUS ON NORTHERN NEW YORK**

- NYPA began construction of a nature center at Robert Moses State Park in Massena to replace one destroyed by fire. Scheduled to open in 2017, it will be operated by the Friends of Robert Moses State Park Nature Center. The facility falls under the Federal Energy Regulatory Commission's Recreation Plan for NYPA's St. Lawrence-FDR Power Project.
- A \$1.3 million contract was awarded in September to add recreation facilities at the NYPA-owned Island View Park in Waddington, including a new, larger picnic pavilion, bathrooms and catering facilities. The park is part of several area recreational facilities that fall within FERC's project boundary for the St. Lawrence-FDR project. The improvements are part of the NYPA's 10-year review of the 2003 relicensing agreement for the project.